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United States
Department
of Agriculture

Forest Service

Intermountain
Research Station

Resource Bulletin
INT-RB-85

March 1996



Idaho's Timber Production and Mill Residue, 1990

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Acknowledgments

We appreciate the cooperation of the owners and operators of Idaho's primary wood using industries in supplying data for this report.

Research Summary

Idaho's timber production in 1990 was 310.9 million cubic feet (1,687.9 million board feet, Scribner rule), down 6 percent from 1985. Sawlog production was 251.1 million cubic feet (1,399.9 million board feet). Veneer log volume was 30.1 million cubic feet (167.8 million board feet). True firs comprised 23 percent, Clearwater County 16 percent, and National Forest lands 42 percent of the harvest. Mill residue volume was 203.2 million cubic feet, 98 percent of which was used, most for pulp chips, particle board, or industrial plant fuel.

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Introduction

This bulletin reports the estimated timber production and mill residue in Idaho in 1990, coinciding with the year of the most recent forest inventory of the State.

The Bureau of Business and Economic Research at the University of Montana (Missoula) canvassed primary wood processing plants to collect the data for this bulletin (tables 1 through 23). Resident mills and those located outside Idaho that consumed industrial roundwood originating in Idaho were contacted. Mill operators were asked to supply information about the timber they received during 1990. This information included the volume, species, product type, ownership and county of origin of timber, and an estimate of mill residue volume by type.

Table 23 contains the factors used to convert log volumes reported by mills in board feet, Scribner rule, and other units of measure into the standard Forest Survey units of measure, cubic feet and board feet, International 1/4-inch rule.

Timber Production

In 1990, Idaho's timber production, which does not include fuelwood, was 310.9 million cubic feet, down almost 6 percent from 1985's 330 million cubic feet, 16 percent from 1979's 371 million cubic feet, and down 8 percent and 2 percent compared to 1969 and 1966 (fig. 1). Sawlogs continued to be the dominant product (tables 1 through 9), accounting for 81 percent of the volume of all industrial roundwood harvested. The 1990 sawlog harvest volume represents a 2 percent increase over the 1985 level, but is down by 12, 11, and 3 percent compared to levels of 1979, 1969, and 1966, respectively (fig. 1). The reported volume of veneer logs was 30.1 million cubic feet, down 5.9 million cubic feet or 16 percent from 1985, and down 36, 18, and 23 percent from 1979, 1969, and 1966, respectively. Production of round pulpwood and fiberwood logs used for oriented strand boards was 18.2 million cubic feet in 1990, a reduction of 28 percent from 1985, and down 32 percent

from 1979's production of pulpwood (there was no oriented strand board plant in 1979). The 1990 harvest was a 35 and 98 percent increase compared to the 1969 and 1966 pulpwood harvests. True firs (*Abies concolor*, *A. grandis*, and *A. lasiocarpa*) made up 23 percent of the harvest (tables 1-3, 10-12, 16-18, fig. 2), followed by Douglas-fir (*Pseudotsuga menziesii*), 22 percent; ponderosa pine (*Pinus ponderosa*), 18

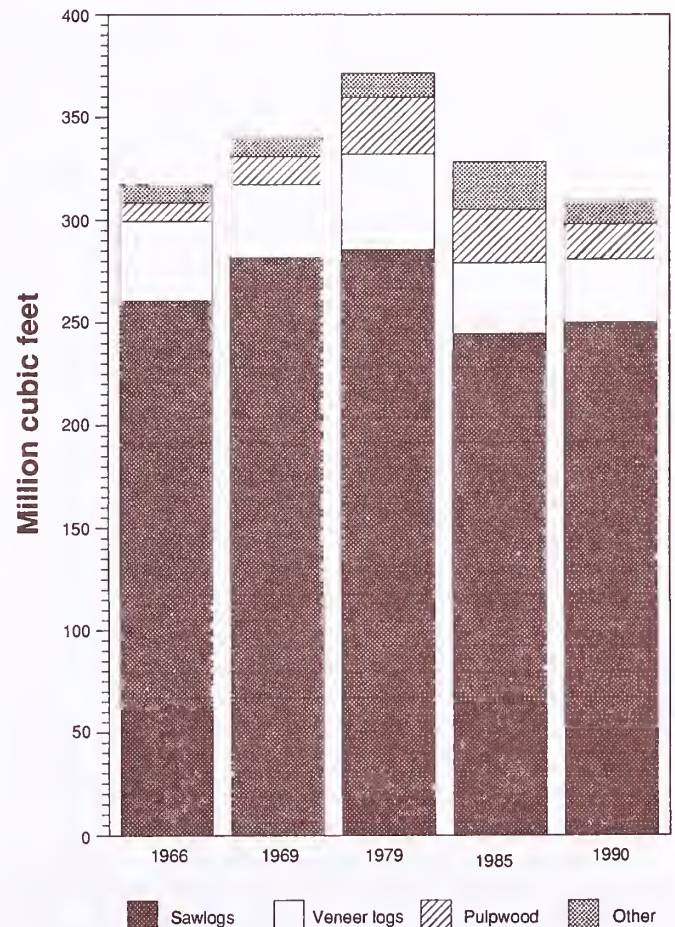


Figure 1—Idaho's timber production by product for selected years (Setzer 1971; Keegan and others 1988).

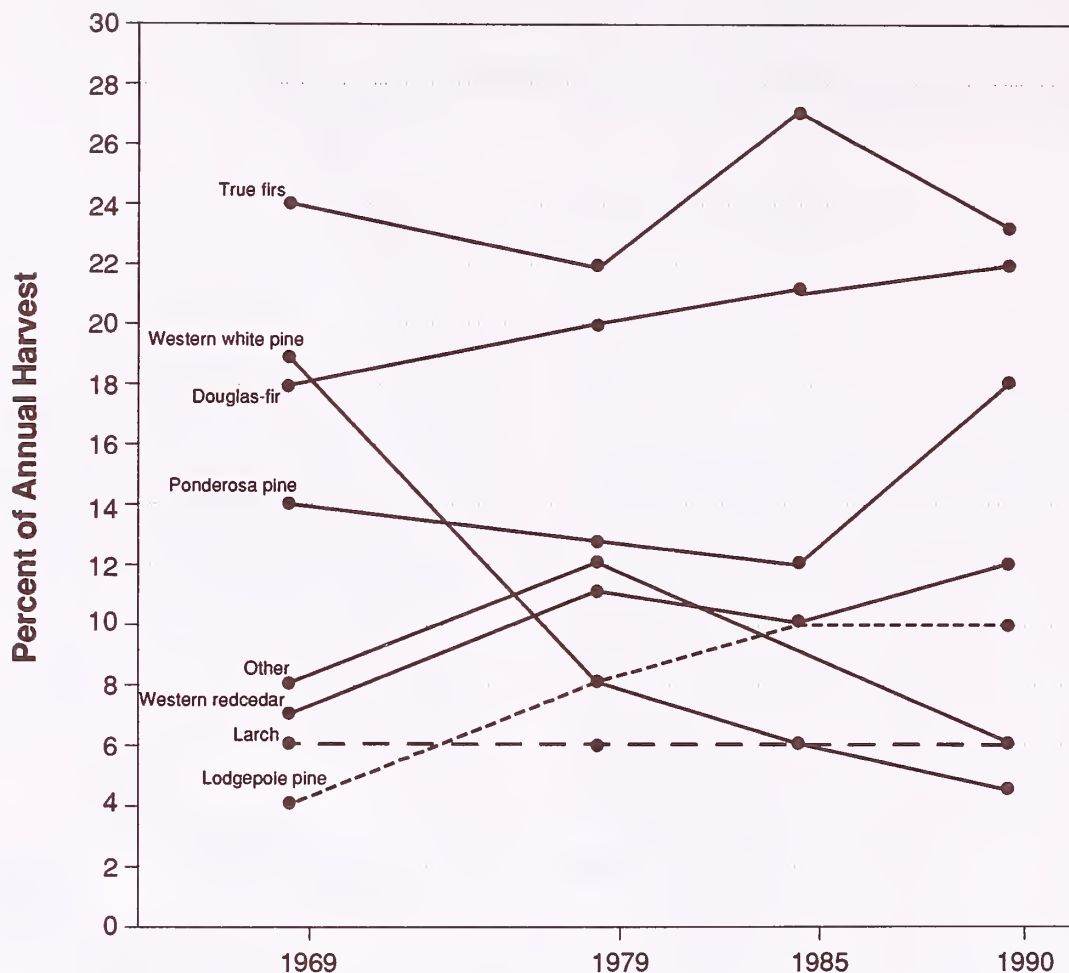


Figure 2—Tree species harvest as a percent of annual harvest for selected years, Idaho (Keegan and others 1992; Setzer 1971).

percent; lodgepole pine (*Pinus contorta*), 11 percent; and western redcedar (*Thuja plicata*), 10 percent. The remaining 16 percent consisted mainly of western larch, Engelmann spruce, western white pine, and western hemlock.

Clearwater County provided 16 percent of Idaho's harvest, followed by Bonner County (12 percent), Shoshone County (11 percent), Idaho County (10 percent), Kootenai and Benewah Counties (9 percent each), and Boise County (7 percent) (tables 7-15; fig. 3). Northern Idaho (Idaho County and north) produced 78 percent of the harvest.

An estimated 42 percent of the timber products harvested in 1990 were from National Forest lands (tables 4-6 and 13-18). Other private lands provided 22 percent of the harvest, forest industry lands 21 percent, and State lands 13 percent. The other 2 percent was from tribal lands and Bureau of Land Management lands.

Harvest Composition and Removals

The following information is provided for use in analyzing the effects of the timber harvest on the timber inventory.

Live trees provided 91 percent (282.8 million cubic feet) of the timber production; the remainder came from salvable dead timber (table 22). Of the 28.1 million cubic feet of timber products from dead trees, 11.1 million cubic feet (40 percent) were ponderosa pine, 5.3 million cubic feet (19 percent) were Douglas-fir, and 3.3 million cubic feet (12 percent) were lodgepole pine. Just over 60 percent of the dead timber was harvested from National Forest lands. Growing-stock removals associated with the timber harvest were 307.4 million cubic feet, of which 280.3 million cubic feet went into timber production and 27.1 million cubic feet were logging

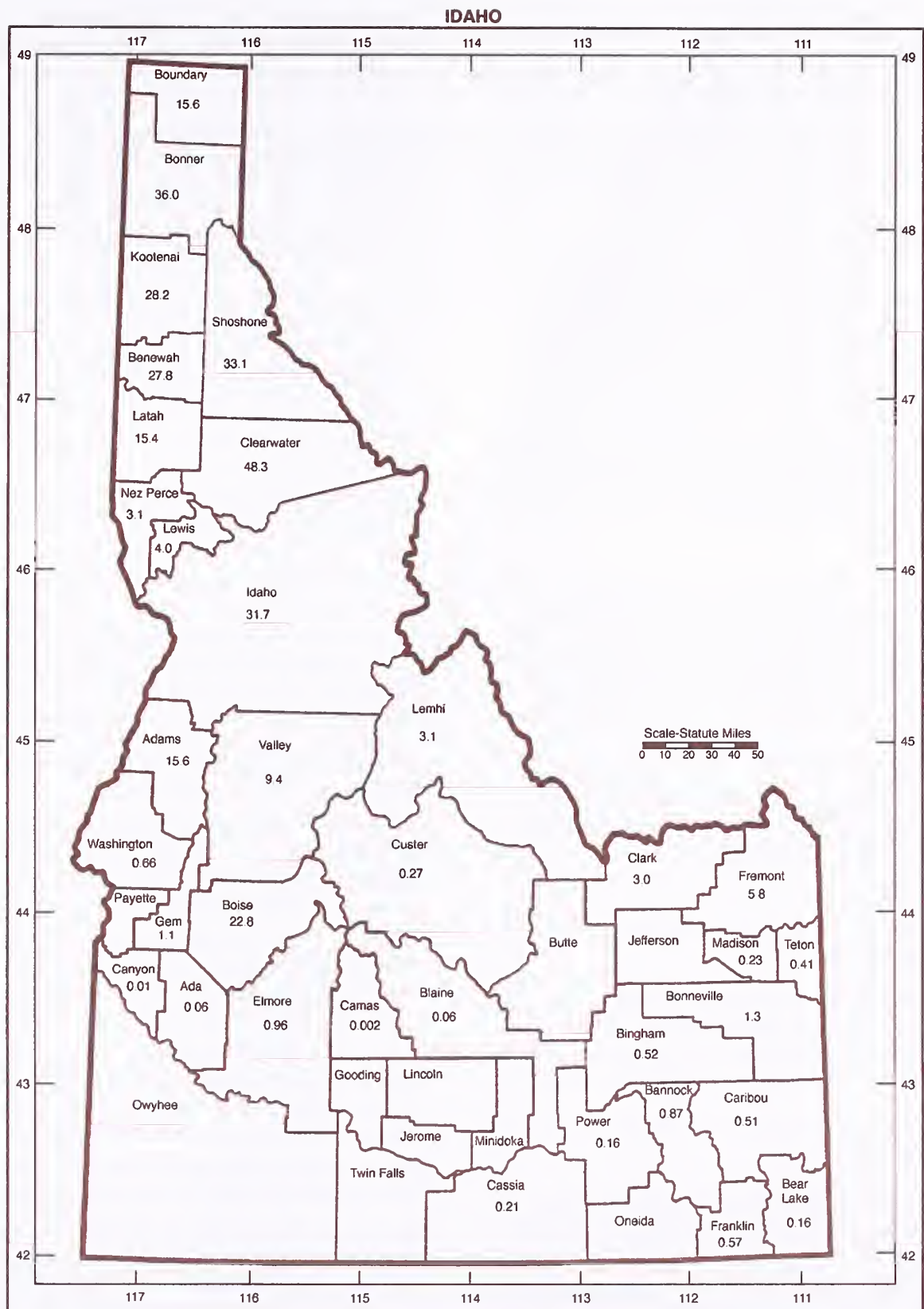


Figure 3—Timber production by county in million cubic feet, Idaho , 1990.

residue, growing-stock volume left in the woods as part of the slash.

The 310.9 million cubic feet of timber production comprised the following components:

| |
|---|
| 280.3 million cubic feet of growing-stock volume |
| 28.1 million cubic feet from salvable dead |
| 2.5 million cubic feet from cull trees, tops, and stumps of growing-stock trees |
| <hr/> 310.9 total |

Sawtimber removals were 1,577.2 million board feet, Scribner rule; 1,495.6 million board feet went into products, and 81.6 million board feet were logging residue. The 1,687.9 million board feet, Scribner rule, of timber production comprised the following components:

| |
|---|
| 1,495.6 million board feet of sawtimber volume |
| 150.8 million board feet from salvable dead |
| 41.5 million board feet from cull trees, tops, stumps, and poletimber |
| <hr/> 1,687.9 total |

In International 1/4-inch rule, sawtimber removals were 1,788.4 million board feet; 1,695.6 million board feet went into products; and 92.8 million board feet were logging residue, sawtimber volume left in the woods as part of the slash. The 1,935.1 million board feet of timber production comprised the following components:

| |
|---|
| 1,695.6 million board feet of sawtimber volume |
| 190.7 million board feet from salvable dead |
| 48.8 million board feet from cull trees, tops, stumps, and poletimber |
| <hr/> 1,935.1 total |

Mill Residue

An estimated 203.2 million cubic feet of mill residue were produced in 1990 (table 20). Ninety-eight percent of this residue was used, most as pulp chips, board fiber, or industrial fuel (tables 19 and 20).

Terminology

Bone dry unit—A quantity of wood residue that would weigh 2,400 pounds at zero percent moisture content.

Coarse residue—That part of sawmill or mill residue suitable for chipping, such as slabs, edgings, trimmings, peeler cores, and pieces of veneer not suitable for making plywood.

Fine residue—That part of sawmill or mill residue finer than coarse residue, consisting of sawdust, shavings, and sander dust.

Growing-stock removals (in this publication)—The growing-stock volume removed from inventory by harvesting. Consists of logging residue and the growing-stock volume of products.

Growing-stock trees (in this publication)—Sawtimber trees and pole timber trees. These are live trees of timber species that meet specified standards of size, quality, and vigor; excludes cull trees, non-timber tree species, and dead trees. See sawtimber trees and poletimber trees.

Growing-stock volume—Net cubic-foot volume in growing-stock trees (poletimber and sawtimber) from a 1-foot stump to a minimum 4-inch top (of central stem) diameter outside bark or to the point where the central stem breaks into limbs.

Industrial wood products—All timber products except fuelwood.

Logging residue—The unused growing-stock or sawtimber volume of trees cut or killed by logging and left in the woods as part of the slash.

Noninventory product volume—The cubic volume of timber products that came from the upper stems (beyond the 4-inch top d.o.b.) or below the 1-foot high stumps of growing-stock product trees; the board-foot volume in timber products that came from poletimber trees, and from the upper stems (beyond the 7-inch or 9-inch top d.o.b.) and below the 1-foot high stumps of sawtimber trees; the product volume from cull trees.

Mill residue—Wood material from primary manufacturing plants not utilized for the mill's primary product—includes bark, slabs, edgings, trimmings, miscuts, sawdust, and shavings.

Poletimber trees—Live trees of timber species, at least 5-inches diameter at breast height (d.b.h.) but smaller than sawtimber size, containing at least one 8-foot bolt, and more than one-third sound.

Removals (in this publication)—The growing-stock and sawtimber volume removed from the inventory by harvesting, consisting of logging residue and the growing-stock and sawtimber volume of products.

Sawlog portion—That part of the bole of sawtimber trees between a 1-foot stump and the sawlog top.

Sawlog top—The portion on the bole of sawtimber trees above which a sawlog cannot be produced. The minimum sawlog top is 7-inches diameter outside bark (d.o.b.) for softwoods and 9-inches d.o.b. for hardwoods.

Sawtimber product volume—The sawtimber volume in timber products.

Sawtimber removals (in this publication)—The sawtimber volume removed from inventory by harvesting, consisting of logging residue and the sawtimber volume of products.

Sawtimber trees—Live trees of timber species meeting regional size and defect specifications. Softwood trees must be at least 9 inches d.b.h. and hardwood trees at least 11 inches d.b.h.

Sawtimber volume—Net volume in board feet of the sawlog portion of live sawtimber trees.

Timber production—The harvested volume of timber products. Also called industrial roundwood production or industrial wood production. Timber products or industrial roundwood (products) refer to logs, bolts, or other round sections cut from trees for industrial or consumer use and delivered “in the round” as logs or bolts to sawmills, plants, or yards. In this report, the term “timber products” does not include fuelwood. Included are sawlogs,

veneer logs, pulpwood, utility poles, corral poles and posts, house logs, and fiber logs. Mine timbers and landscaping timbers would have been included if they had been reported as harvested.

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Table 1—Cubic volume of timber products harvested in Idaho by species and product, 1990.

| Species | Product | | | | | | | All products¹ | Percent |
|--------------------|---------------------------------|-------------|--------------------|-----------------|---------------|------------|----------------|---------------|---------|
| | Sawlogs | Veneer logs | Pulp and fiberwood | Posts and poles | Utility poles | House logs | Cedar products | | |
| | ----- Thousand cubic feet ----- | | | | | | | | |
| True fir | 54,517 | 12,969 | 2,839 | — | — | 29 | — | 70,355 | 22.6 |
| Western larch | 15,248 | 1,777 | 139 | 8 | — | 39 | — | 17,210 | 5.5 |
| Engelmann spruce | 8,346 | 612 | 151 | — | — | 50 | — | 9,159 | 2.9 |
| Lodgepole pine | 20,429 | 52 | 7,944 | 4,469 | 125 | 1,025 | — | 34,043 | 10.9 |
| Western white pine | 12,733 | 731 | 898 | 200 | — | 173 | — | 14,735 | 4.7 |
| Ponderosa pine | 49,209 | 3,304 | 1,946 | — | — | 236 | — | 54,695 | 17.6 |
| Douglas-fir | 56,012 | 10,321 | 1,400 | — | — | 121 | — | 67,853 | 21.8 |
| Western redcedar | 26,531 | 303 | 385 | — | 690 | 4 | 4,377 | 32,289 | 10.4 |
| Western hemlock | 7,894 | 38 | 1,994 | — | — | — | — | 9,926 | 3.2 |
| Cottonwood | — | — | 489 | — | — | — | — | 489 | 0.2 |
| Unknown | 178 | — | — | — | — | — | — | 178 | 0.1 |
| All species¹ | 251,095 | 30,107 | 18,185 | 4,677 | 815 | 1,676 | 4,377 | 310,933 | 100.0 |
| Percent of total | 80.8 | 9.7 | 5.8 | 1.5 | 0.3 | 0.5 | 1.4 | 100.0 | |

¹Data may not sum to totals due to rounding or truncating.**Table 2**—Board-foot (Scribner rule) volume of timber products harvested in Idaho by species and product, 1990.

| Species | Product | | | | | | | All products¹ |
|---------------------------------|-----------|-------------|--------------------|-----------------|---------------|------------|----------------|---------------|
| | Sawlogs | Veneer logs | Pulp and fiberwood | Posts and poles | Utility poles | House logs | Cedar products | |
| ----- Thousand board feet ----- | | | | | | | | |
| True fir | 303,934 | 72,302 | 12,788 | — | — | 163 | — | 389,187 |
| Western larch | 85,005 | 9,908 | 629 | — | — | 216 | — | 95,758 |
| Engelmann spruce | 46,529 | 3,413 | 683 | — | — | 276 | — | 50,901 |
| Lodgepole pine | 113,892 | 290 | 35,742 | — | 695 | 5,713 | — | 156,332 |
| Western white pine | 70,986 | 4,076 | 4,043 | — | — | 965 | — | 80,070 |
| Ponderosa pine | 274,338 | 18,421 | 8,758 | — | — | 1,318 | — | 302,835 |
| Douglas-fir | 312,266 | 57,537 | 6,283 | — | — | 674 | — | 376,760 |
| Western redcedar | 147,908 | 1,688 | 1,731 | — | 3,848 | 21 | 24,402 | 179,598 |
| Western hemlock | 44,007 | 214 | 9,013 | — | — | — | — | 53,234 |
| Cottonwood | — | — | 2,195 | — | — | — | — | 2,195 |
| Unknown | 991 | — | — | — | — | — | — | 991 |
| All species¹ | 1,399,856 | 167,849 | 81,865 | — | 4,543 | 9,346 | 24,402 | 1,687,861 |

¹Data may not sum to totals due to rounding or truncating.

Table 3—Board-foot (International 1/4-inch rule) volume of timber products harvested in Idaho by species and product, 1990.

| Species | Product | | | | | | | All products ¹ |
|--------------------|---------------------------------|-------------|--------------------|-----------------|---------------|------------|----------------|---------------------------|
| | Sawlogs | Veneer logs | Pulp and fiberwood | Posts and poles | Utility poles | House logs | Cedar products | |
| | ----- Thousand board feet ----- | | | | | | | |
| True fir | 347,093 | 82,569 | 12,788 | — | — | 186 | — | 442,636 |
| Western larch | 97,076 | 11,315 | 629 | — | — | 247 | — | 109,266 |
| Engelmann spruce | 53,136 | 3,898 | 683 | — | — | 315 | — | 58,032 |
| Lodgepole pine | 130,065 | 331 | 35,742 | — | 794 | 6,524 | — | 173,456 |
| Western white pine | 81,066 | 4,655 | 4,043 | — | — | 1,102 | — | 90,866 |
| Ponderosa pine | 313,294 | 21,037 | 8,758 | — | — | 1,505 | — | 344,594 |
| Douglas-fir | 356,608 | 65,707 | 6,283 | — | — | 770 | — | 429,368 |
| Western redcedar | 168,911 | 1,928 | 1,731 | — | 4,394 | 24 | 27,867 | 204,855 |
| Western hemlock | 50,256 | 244 | 9,013 | — | — | — | — | 59,513 |
| Cottonwood | — | — | 2,195 | — | — | — | — | 2,195 |
| Unknown | 1,132 | — | — | — | — | — | — | 1,132 |
| All species | 1,598,636 | 191,684 | 81,865 | — | 5,188 | 10,673 | 27,867 | 1,915,912 |

¹Data may not sum to totals due to rounding or truncating.

Table 4—Cubic volume of timber products harvested in Idaho by owner and product, 1990.

| Owner | Product | | | | | | | All products¹ | Percent |
|---|--|-------------|--------------------|-----------------|---------------|------------|----------------|---------------|---------|
| | Sawlogs | Veneer logs | Pulp and fiberwood | Posts and poles | Utility poles | House logs | Cedar products | | |
| | ----- <i>Thousand cubic feet</i> ----- | | | | | | | | |
| National Forest Bureau of Land Management | 106,631 | 10,867 | 4,714 | 4,466 | 114 | 1,407 | 2,060 | 130,259 | 41.9 |
| State | 1,577 | 80 | — | — | — | 34 | — | 1,692 | 0.5 |
| Tribal | 33,601 | 4,788 | 769 | 15 | 427 | 133 | 1,221 | 40,954 | 13.2 |
| Forest industry | 3,985 | — | — | 60 | — | — | 54 | 4,098 | 1.3 |
| Other private | 48,657 | 13,165 | 3,288 | — | 46 | 15 | 785 | 65,956 | 21.2 |
| All owners¹ | 56,644 | 1,206 | 9,414 | 136 | 228 | 88 | 257 | 67,974 | 21.9 |
| Percent of total | 251,095 | 30,107 | 18,185 | 4,677 | 815 | 1,676 | 4,377 | 310,933 | 100.0 |
| | 80.8 | 9.7 | 5.8 | 1.5 | 0.3 | 0.5 | 1.4 | 100.0 | |

¹Data may not sum to totals due to rounding or truncating.

Table 5—Board-foot (Scribner rule) volume of timber products harvested in Idaho by owner and product, 1990.

| Owner | Product | | | | | | | All products¹ |
|---|--|-------------|--------------------|-----------------|---------------|------------|----------------|---------------|
| | Sawlogs | Veneer logs | Pulp and fiberwood | Posts and poles | Utility poles | House logs | Cedar products | |
| | ----- <i>Thousand board feet</i> ----- | | | | | | | |
| National Forest Bureau of Land Management | 594,468 | 60,584 | 21,234 | — | 635 | 7,842 | 11,486 | 696,249 |
| State | 8,793 | 448 | — | — | — | 192 | — | 9,433 |
| Tribal | 187,327 | 26,695 | 3,451 | — | 2,378 | 740 | 6,806 | 227,397 |
| Forest industry | 22,214 | — | — | — | — | — | 300 | 22,514 |
| Other private | 271,262 | 73,397 | 14,804 | — | 259 | 81 | 4,375 | 364,178 |
| All owners¹ | 315,792 | 6,725 | 42,376 | — | 1,271 | 491 | 1,435 | 368,090 |
| | 1,399,856 | 167,849 | 81,865 | — | 4,543 | 9,346 | 24,402 | 1,687,861 |

¹Data may not sum to totals due to rounding or truncating.

Table 6—Board-foot (International 1/4-inch rule) volume of timber products harvested in Idaho by owner and product, 1990.

| Owner | Product | | | | | | | All products ¹ |
|---|---------------------------------|-------------|--------------------|-----------------|---------------|------------|----------------|---------------------------|
| | Sawlogs | Veneer logs | Pulp and fiberwood | Posts and poles | Utility poles | House logs | Cedar products | |
| | ----- Thousand board feet ----- | | | | | | | |
| National Forest Bureau of Land Management | 678,882 | 69,187 | 21,234 | — | 725 | 8,956 | 13,117 | 792,101 |
| State | 10,042 | 512 | — | — | — | 219 | — | 10,772 |
| Tribal | 213,927 | 30,486 | 3,451 | — | 2,716 | 845 | 7,772 | 259,197 |
| Forest industry | 25,368 | — | — | — | — | — | 343 | 25,711 |
| Other private | 309,781 | 83,819 | 14,804 | — | 296 | 93 | 4,996 | 413,789 |
| | 360,634 | 7,680 | 42,376 | — | 1,451 | 561 | 1,639 | 414,341 |
| All owners ¹ | 1,598,636 | 191,684 | 81,865 | — | 5,188 | 10,673 | 27,867 | 1,915,912 |

¹Data may not sum to totals due to rounding or truncating.

Table 7—Cubic volume of timber products harvested in Idaho by county and product, 1990.

| County | Product | | | | | | | All products¹ | Percent |
|---------------------------------|---------|-------------|--------------------|-----------------|---------------|------------|----------------|---------------|---------|
| | Sawlogs | Veneer logs | Pulp and fiberwood | Posts and poles | Utility poles | House logs | Cedar products | | |
| ----- Thousand cubic feet ----- | | | | | | | | | |
| Ada | 7 | 52 | — | — | — | — | — | 59 | 0.0 |
| Adams | 12,987 | 2,079 | 439 | — | — | 141 | — | 15,647 | 5.0 |
| Bannock | 866 | — | — | — | — | — | — | 866 | 0.3 |
| Bear Lake | 161 | — | — | — | — | — | — | 161 | 0.1 |
| Benewah | 23,716 | 1,486 | 2,183 | — | 204 | — | 180 | 27,769 | 8.9 |
| Bingham | 525 | — | — | — | — | — | — | 525 | 0.2 |
| Blaine | 29 | 25 | — | — | 2 | 7 | — | 63 | 0.0 |
| Boise | 17,816 | 4,704 | — | 4 | — | 254 | — | 22,777 | 7.3 |
| Bonner | 33,180 | 88 | 1,379 | 490 | 154 | 147 | 559 | 35,996 | 11.6 |
| Bonneville | 1,167 | — | — | — | — | 94 | — | 1,261 | 0.4 |
| Boundary | 14,650 | 285 | 364 | 125 | 20 | 58 | 60 | 15,562 | 5.0 |
| Camas | 2 | — | — | — | — | — | — | 2 | 0.0 |
| Canyon | 11 | — | — | — | — | — | — | 11 | 0.0 |
| Caribou | 511 | — | — | — | — | — | — | 511 | 0.2 |
| Cassia | 63 | — | — | 150 | — | — | — | 213 | 0.1 |
| Clark | 2,798 | — | — | — | — | 160 | — | 2,958 | 1.0 |
| Clearwater | 32,594 | 11,572 | 2,159 | — | 269 | 8 | 1,713 | 48,315 | 15.5 |
| Custer | 72 | — | — | 200 | 2 | — | — | 274 | 0.1 |
| Elmore | 570 | 384 | — | — | — | 3 | — | 957 | 0.3 |
| Franklin | 323 | — | — | 250 | 2 | — | — | 574 | 0.2 |
| Fremont | 2,746 | — | — | 2,728 | 22 | 332 | — | 5,829 | 1.9 |
| Gem | 869 | 211 | — | — | — | — | — | 1,080 | 0.3 |
| Idaho | 29,412 | 586 | 536 | 312 | 9 | 126 | 699 | 31,680 | 10.2 |
| Kootenai | 22,168 | 861 | 4,859 | 45 | 16 | 11 | 224 | 28,184 | 9.1 |
| Latah | 12,161 | 1,221 | 1,959 | — | 18 | — | 48 | 15,408 | 5.0 |
| Lemhi | 2,606 | 161 | — | 298 | 1 | 11 | — | 3,076 | 1.0 |
| Lewis | 1,808 | 64 | 2,179 | — | — | — | 4 | 4,055 | 1.3 |
| Madison | 233 | — | — | — | — | — | — | 233 | 0.1 |
| Nez Perce | 2,895 | 43 | 95 | 61 | — | — | — | 3,093 | 1.0 |
| Power | 163 | — | — | — | — | — | — | 163 | 0.1 |
| Shoshone | 25,351 | 5,152 | 1,726 | — | 2 | 15 | 890 | 33,136 | 10.7 |
| Teton | 362 | — | — | 10 | 4 | 38 | — | 414 | 0.1 |
| Valley | 7,771 | 1,047 | 307 | 4 | 20 | 273 | — | 9,421 | 3.0 |
| Washington | 502 | 87 | — | — | 69 | — | — | 658 | 0.2 |
| All counties¹ | 251,095 | 30,107 | 18,185 | 4,677 | 815 | 1,676 | 4,377 | 310,933 | 100.0 |
| Percent of total | 80.8 | 9.7 | 5.8 | 1.5 | 0.3 | 0.5 | 1.4 | 100.0 | |

¹Data may not sum to totals due to rounding or truncating.

Table 8—Board-foot (Scribner rule) volume of timber products harvested in Idaho by county and product, 1990.

| County | Product | | | | | | | All products¹ |
|---------------------------------|-----------|-------------|--------------------|-----------------|---------------|------------|----------------|---------------|
| | Sawlogs | Veneer logs | Pulp and fiberwood | Posts and poles | Utility poles | House logs | Cedar products | |
| ----- Thousand board feet ----- | | | | | | | | |
| Ada | 40 | 290 | — | — | — | — | — | 330 |
| Adams | 72,405 | 11,593 | 1,985 | — | — | 786 | — | 86,769 |
| Bannock | 4,827 | — | — | — | — | — | — | 4,827 |
| Bear Lake | 900 | — | — | — | — | — | — | 900 |
| Benewah | 132,214 | 8,285 | 9,821 | — | 1,138 | — | 1,006 | 152,464 |
| Bingham | 2,927 | — | — | — | — | — | — | 2,927 |
| Blaine | 160 | 142 | — | — | 12 | 40 | — | 354 |
| Boise | 99,323 | 26,223 | — | — | — | 1,415 | — | 126,961 |
| Bonner | 184,978 | 488 | 6,203 | — | 860 | 818 | 3,114 | 196,461 |
| Bonneville | 6,508 | — | — | — | — | 524 | — | 7,032 |
| Boundary | 81,676 | 1,587 | 1,633 | — | 110 | 325 | 336 | 85,667 |
| Camas | 10 | — | — | — | — | — | — | 10 |
| Canyon | 60 | — | — | — | — | — | — | 60 |
| Caribou | 2,850 | — | — | — | — | — | — | 2,850 |
| Cassia | 350 | — | — | — | — | — | — | 350 |
| Clark | 15,597 | — | — | — | — | 894 | — | 16,491 |
| Clearwater | 181,713 | 64,516 | 9,707 | — | 1,502 | 42 | 9,549 | 267,029 |
| Custer | 400 | — | — | — | 12 | — | — | 412 |
| Elmore | 3,178 | 2,141 | — | — | — | 14 | — | 5,333 |
| Franklin | 1,800 | — | — | — | 9 | — | — | 1,809 |
| Fremont | 15,311 | — | — | — | 125 | 1,850 | — | 17,286 |
| Gem | 4,846 | 1,176 | — | — | — | — | — | 6,022 |
| Idaho | 163,970 | 3,266 | 2,414 | — | 51 | 704 | 3,899 | 174,304 |
| Kootenai | 123,588 | 4,800 | 21,855 | — | 87 | 63 | 1,250 | 151,643 |
| Latah | 67,797 | 6,808 | 8,835 | — | 103 | — | 268 | 83,811 |
| Lemhi | 14,526 | 900 | — | — | 3 | 60 | — | 15,489 |
| Lewis | 10,080 | 356 | 9,808 | — | — | — | 20 | 20,264 |
| Madison | 1,301 | — | — | — | — | — | — | 1,301 |
| Nez Perce | 16,137 | 237 | 425 | — | — | — | — | 16,799 |
| Power | 907 | — | — | — | — | — | — | 907 |
| Shoshone | 141,334 | 28,722 | 7,783 | — | 11 | 81 | 4,960 | 182,891 |
| Teton | 2,018 | — | — | — | 24 | 210 | — | 2,252 |
| Valley | 43,325 | 5,836 | 1,396 | — | 110 | 1,520 | — | 52,187 |
| Washington | 2,800 | 483 | — | — | 386 | — | — | 3,669 |
| All counties¹ | 1,399,856 | 167,849 | 81,865 | — | 4,543 | 9,346 | 24,402 | 1,687,861 |

¹Data may not sum to totals due to rounding or truncating.

Table 9—Board-foot (International 1/4-inch rule) volume of timber products harvested in Idaho by county and product, 1990.

| County | Product | | | | | | | All products¹ |
|---------------|---------------------------------|-------------|--------------------|-----------------|---------------|------------|----------------|---------------|
| | Sawlogs | Veneer logs | Pulp and fiberwood | Posts and poles | Utility poles | House logs | Cedar products | |
| | ----- Thousand board feet ----- | | | | | | | |
| Ada | 46 | 331 | — | — | — | — | — | 377 |
| Adams | 82,687 | 13,239 | 1,985 | — | — | 898 | — | 98,808 |
| Bannock | 5,512 | — | — | — | — | — | — | 5,512 |
| Bear Lake | 1,028 | — | — | — | — | — | — | 1,028 |
| Benewah | 150,988 | 9,461 | 9,821 | — | 1,300 | — | 1,149 | 172,719 |
| Bingham | 3,343 | — | — | — | — | — | — | 3,343 |
| Blaine | 183 | 162 | — | — | 14 | 46 | — | 404 |
| Boise | 113,427 | 29,947 | — | — | — | 1,616 | — | 144,989 |
| Bonner | 211,245 | 557 | 6,203 | — | 982 | 934 | 3,556 | 223,478 |
| Bonneville | 7,432 | — | — | — | — | 598 | — | 8,031 |
| Boundary | 93,274 | 1,812 | 1,633 | — | 126 | 371 | 384 | 97,600 |
| Camas | 11 | — | — | — | — | — | — | 11 |
| Canyon | 69 | — | — | — | — | — | — | 69 |
| Caribou | 3,255 | — | — | — | — | — | — | 3,255 |
| Cassia | 400 | — | — | — | — | — | — | 400 |
| Clark | 17,812 | — | — | — | — | 1,021 | — | 18,833 |
| Clearwater | 207,516 | 73,677 | 9,707 | — | 1,715 | 48 | 10,905 | 303,569 |
| Custer | 457 | — | — | — | 14 | — | — | 471 |
| Elmore | 3,629 | 2,445 | — | — | — | 16 | — | 6,090 |
| Franklin | 2,056 | — | — | — | 10 | — | — | 2,066 |
| Fremont | 17,485 | — | — | — | 143 | 2,113 | — | 19,741 |
| Gem | 5,534 | 1,343 | — | — | — | — | — | 6,877 |
| Idaho | 187,254 | 3,730 | 2,414 | — | 58 | 804 | 4,453 | 198,712 |
| Kootenai | 141,137 | 5,482 | 21,855 | — | 99 | 72 | 1,428 | 170,073 |
| Latah | 77,424 | 7,775 | 8,835 | — | 118 | — | 306 | 94,458 |
| Lemhi | 16,589 | 1,028 | — | — | 3 | 69 | — | 17,688 |
| Lewis | 11,511 | 407 | 9,808 | — | — | — | 23 | 21,749 |
| Madison | 1,486 | — | — | — | — | — | — | 1,486 |
| Nez Perce | 18,428 | 271 | 425 | — | — | — | — | 19,124 |
| Power | 1,036 | — | — | — | — | — | — | 1,036 |
| Shoshone | 161,403 | 32,801 | 7,783 | — | 13 | 93 | 5,664 | 207,756 |
| Teton | 2,305 | — | — | — | 27 | 240 | — | 2,572 |
| Valley | 49,477 | 6,665 | 1,396 | — | 126 | 1,736 | — | 59,399 |
| Washington | 3,198 | 552 | — | — | 441 | — | — | 4,190 |
| All counties¹ | 1,598,636 | 191,684 | 81,865 | — | 5,188 | 10,673 | 27,867 | 1,915,912 |

¹Data may not sum to totals due to rounding or truncating.

Table 10—Cubic volume of timber products harvested in Idaho by county and species, 1990.

| County | Species | | | | | | | | | | All species ¹ | Percent |
|------------------|----------|------------------|------------------|----------------|--------------------|---------------------|-------------|------------------|-----------------|------------|--------------------------|---------|
| | True fir | Western larch | Engelmann spruce | Lodgepole pine | Western white pine | Ponderosa pine | Douglas-fir | Western redcedar | Western hemlock | Cottonwood | Unknown | |
| | | | | | | Thousand cubic feet | | | | | | |
| Ada | 1 | (²) | (²) | — | — | 17 | 34 | — | — | — | 7 | 59 |
| Adams | 2,683 | 1,196 | 768 | 635 | 223 | 6,277 | 3,643 | 140 | 83 | — | — | 15,647 |
| Bannock | 43 | — | 14 | 170 | — | — | 640 | — | — | — | — | 866 |
| Bear Lake | 8 | — | — | 73 | — | — | 81 | — | — | — | — | 161 |
| Benewah | 7,114 | 1,898 | 577 | 2,053 | 2,485 | 4,580 | 5,341 | 3,301 | 420 | — | (²) | 27,769 |
| Bingham | 21 | — | 3 | 217 | — | — | 283 | — | — | — | — | 525 |
| Blaine | 1 | (²) | 4 | 9 | — | 8 | 42 | — | — | — | — | 63 |
| Boise | 2,501 | 564 | 709 | 485 | 57 | 12,513 | 5,778 | 114 | 57 | — | — | 22,777 |
| Bonner | 6,664 | 2,805 | 693 | 4,475 | 1,891 | 3,013 | 11,025 | 2,831 | 2,470 | 30 | 99 | 35,996 |
| Bonneville | 59 | — | 1 | 940 | — | — | 262 | — | — | — | — | 1,261 |
| Boundary | 2,633 | 1,617 | 700 | 2,159 | 426 | 509 | 4,656 | 1,079 | 1,709 | 22 | 51 | 15,562 |
| Camas | — | — | — | — | — | — | 2 | — | — | — | — | 2 |
| Canyon | — | — | — | — | — | — | — | — | — | — | 11 | 11 |
| Caribou | 25 | — | — | 287 | — | — | 200 | — | — | — | — | 511 |
| Cassia | — | — | — | 181 | — | — | 31 | — | — | — | — | 213 |
| Clark | 141 | — | 23 | 1,482 | — | — | 1,312 | — | — | — | — | 2,958 |
| Clearwater | 17,789 | 1,621 | 1,020 | 1,953 | 2,641 | 2,392 | 6,463 | 12,974 | 1,386 | 77 | — | 48,315 |
| Custer | 1 | — | — | 217 | — | — | 55 | — | — | — | — | 274 |
| Elmore | 57 | 16 | 7 | 3 | — | 547 | 327 | — | — | — | — | 957 |
| Franklin | 16 | — | — | 397 | — | — | 161 | — | — | — | — | 574 |
| Fremont | 118 | — | 5 | 4,885 | — | 7 | 813 | — | — | — | — | 5,829 |
| Gem | 76 | 14 | 10 | — | — | 735 | 245 | — | — | — | — | 1,080 |
| Idaho | 6,879 | 2,141 | 1,863 | 2,419 | 1,725 | 6,355 | 5,435 | 4,257 | 607 | — | — | 31,680 |
| Kootenai | 4,834 | 1,515 | 429 | 4,613 | 2,392 | 5,184 | 5,210 | 2,314 | 1,438 | 250 | 5 | 28,184 |
| Latah | 4,451 | 540 | 197 | 1,583 | 603 | 2,316 | 3,363 | 1,928 | 360 | 66 | — | 15,408 |
| Lemhi | 441 | 223 | 280 | 876 | 2 | 569 | 670 | — | 15 | — | — | 3,076 |
| Lewis | 879 | 32 | 31 | 736 | 315 | 869 | 738 | 162 | 292 | — | — | 4,055 |
| Madison | 11 | — | — | 175 | — | — | 48 | — | — | — | — | 233 |
| Nez Perce | 102 | 32 | 382 | 114 | 730 | 505 | 804 | 389 | 35 | — | — | 3,093 |
| Power | 8 | — | 3 | 15 | — | — | 137 | — | — | — | — | 163 |
| Shoshone | 11,007 | 2,706 | 915 | 2,145 | 1,197 | 3,413 | 8,105 | 2,636 | 964 | 44 | 4 | 33,136 |
| Teton | 19 | — | 1 | 304 | — | — | 90 | — | — | — | — | 414 |
| Valley | 1,676 | 261 | 500 | 408 | 50 | 4,617 | 1,725 | 95 | 90 | — | — | 9,421 |
| Washington | 97 | 30 | 23 | 36 | — | 269 | 133 | 69 | — | — | — | 658 |
| All counties | 70,355 | 17,210 | 9,159 | 34,043 | 14,735 | 54,695 | 67,853 | 32,289 | 9,926 | 489 | 178 | 310,933 |
| Percent of total | 22.6 | 5.5 | 2.9 | 10.9 | 4.7 | 17.6 | 21.8 | 10.4 | 3.2 | 0.2 | 0.1 | 100.0 |

¹Data may not sum to totals due to rounding or truncating.

²Less than 500 cubic feet.

Table 11—Board-foot (Scribner rule) volume of timber products harvested in Idaho by county and species, 1990.

| County | Species | | | | | | | | | | | All species¹ |
|---------------------------------|----------|---------------|------------------|----------------|--------------------|----------------|-------------|------------------|-----------------|------------|---------|--------------|
| | True fir | Western larch | Engelmann spruce | Lodgepole pine | Western white pine | Ponderosa pine | Douglas-fir | Western redcedar | Western hemlock | Cottonwood | Unknown | |
| ----- Thousand board feet ----- | | | | | | | | | | | | |
| Ada | 7 | 2 | 2 | — | — | 92 | 187 | — | — | — | 40 | 330 |
| Adams | 14,806 | 6,654 | 4,268 | 3,491 | 1,242 | 34,915 | 20,215 | 778 | 400 | — | — | 86,769 |
| Bannock | 238 | — | 77 | 946 | — | — | 3,566 | — | — | — | — | 4,827 |
| Bear Lake | 45 | — | — | 405 | — | — | 450 | — | — | — | — | 900 |
| Benewah | 39,297 | 10,574 | 3,201 | 10,702 | 13,552 | 25,293 | 29,490 | 18,277 | 2,077 | — | 1 | 152,464 |
| Bingham | 118 | — | 19 | 1,210 | — | — | 1,580 | — | — | — | — | 2,927 |
| Blaine | 3 | 1 | 20 | 52 | — | 46 | 232 | — | — | — | — | 354 |
| Boise | 13,942 | 3,146 | 3,953 | 2,680 | 318 | 69,758 | 32,211 | 635 | 318 | — | — | 126,961 |
| Bonner | 36,961 | 15,640 | 3,862 | 22,102 | 9,850 | 16,655 | 61,367 | 15,722 | 13,613 | 135 | 554 | 196,461 |
| Bonneville | 328 | — | 3 | 5,241 | — | — | 1,460 | — | — | — | — | 7,032 |
| Boundary | 14,641 | 9,016 | 3,905 | 11,636 | 1,817 | 2,802 | 25,959 | 6,014 | 9,493 | 98 | 286 | 85,667 |
| Camas | — | — | — | — | — | — | 10 | — | — | — | — | 10 |
| Canyon | — | — | — | — | — | — | — | — | — | — | 60 | 60 |
| Caribou | 138 | — | — | 1,598 | — | — | 1,114 | — | — | — | — | 2,850 |
| Cassia | — | — | — | 175 | — | — | 175 | — | — | — | — | 350 |
| Clark | 788 | — | 129 | 8,262 | — | — | 7,312 | — | — | — | — | 16,491 |
| Clearwater | 98,746 | 8,994 | 5,646 | 9,877 | 14,721 | 13,062 | 35,840 | 72,329 | 7,471 | 343 | — | 267,029 |
| Custer | 6 | — | — | 97 | — | — | 309 | — | — | — | — | 412 |
| Elmore | 316 | 88 | 39 | 14 | — | 3,051 | 1,825 | — | — | — | — | 5,333 |
| Franklin | 90 | — | — | 819 | — | — | 900 | — | — | — | — | 1,809 |
| Fremont | 657 | — | 30 | 12,024 | — | 40 | 4,535 | — | — | — | — | 17,286 |
| Gem | 425 | 80 | 53 | — | — | 4,097 | 1,367 | — | — | — | — | 6,022 |
| Idaho | 38,164 | 11,893 | 10,366 | 11,706 | 9,616 | 35,343 | 30,180 | 23,733 | 3,303 | — | — | 174,304 |
| Kootenai | 26,406 | 8,433 | 2,380 | 22,259 | 13,251 | 28,413 | 28,955 | 12,867 | 7,523 | 1,126 | 30 | 151,643 |
| Latah | 24,529 | 3,002 | 1,092 | 7,795 | 3,268 | 12,703 | 18,628 | 10,710 | 1,787 | 297 | — | 83,811 |
| Lemhi | 2,458 | 1,242 | 1,563 | 3,223 | 13 | 3,171 | 3,733 | — | 86 | — | — | 15,489 |
| Lewis | 4,526 | 175 | 171 | 3,355 | 1,449 | 4,598 | 3,863 | 773 | 1,354 | — | — | 20,264 |
| Madison | 59 | — | — | 976 | — | — | 266 | — | — | — | — | 1,301 |
| Nez Perce | 538 | 171 | 2,122 | 281 | 4,069 | 2,802 | 4,461 | 2,171 | 184 | — | — | 16,799 |
| Power | 45 | — | 18 | 82 | — | — | 762 | — | — | — | — | 907 |
| Shoshone | 61,018 | 15,056 | 5,074 | 11,243 | 6,628 | 18,810 | 45,008 | 14,673 | 5,165 | 196 | 20 | 182,891 |
| Teton | 105 | — | 3 | 1,640 | — | — | 504 | — | — | — | — | 2,252 |
| Valley | 9,244 | 1,424 | 2,774 | 2,239 | 276 | 25,687 | 9,553 | 530 | 460 | — | — | 52,187 |
| Washington | 543 | 167 | 131 | 202 | — | 1,497 | 743 | 386 | — | — | — | 3,669 |
| All counties¹ | 389,187 | 95,758 | 50,901 | 156,332 | 80,070 | 302,835 | 376,760 | 179,598 | 53,234 | 2,195 | 991 | 1,687,861 |

¹Data may not sum to totals due to rounding or truncating.

Table 12—Board-foot (International 1/4-inch rule) volume of timber products harvested in Idaho by county and species, 1990.

| County | Species | | | | | | | | | | | All species¹ |
|---------------------|----------|---------------|------------------|----------------|--------------------|----------------|-------------|------------------|-----------------|------------|---------|--------------|
| | True fir | Western larch | Engelmann spruce | Lodgepole pine | Western white pine | Ponderosa pine | Douglas-fir | Western redcedar | Western hemlock | Cottonwood | Unknown | |
| Thousand board feet | | | | | | | | | | | | |
| Ada | 8 | 2 | 2 | — | — | 105 | 214 | — | — | — | 46 | 377 |
| Adams | 16,818 | 7,590 | 4,863 | 3,958 | 1,418 | 39,827 | 23,028 | 888 | 417 | — | — | 98,808 |
| Bannock | 272 | — | 88 | 1,080 | — | — | 4,072 | — | — | — | — | 5,512 |
| Bear Lake | 51 | — | — | 463 | — | — | 514 | — | — | — | — | 1,028 |
| Benewah | 44,662 | 12,073 | 3,648 | 11,779 | 15,297 | 28,745 | 33,511 | 20,796 | 2,208 | — | 1 | 172,719 |
| Bingham | 135 | — | 22 | 1,382 | — | — | 1,804 | — | — | — | — | 3,343 |
| Blaine | 3 | 1 | 23 | 59 | — | 53 | 265 | — | — | — | — | 404 |
| Boise | 15,922 | 3,593 | 4,514 | 3,061 | 363 | 79,664 | 36,785 | 725 | 363 | — | — | 144,989 |
| Bonner | 42,097 | 17,861 | 4,410 | 24,841 | 11,170 | 18,935 | 70,025 | 17,921 | 15,450 | 135 | 633 | 223,478 |
| Bonneville | 375 | — | 3 | 5,985 | — | — | 1,667 | — | — | — | — | 8,031 |
| Boundary | 16,699 | 10,296 | 4,460 | 13,133 | 2,075 | 3,179 | 29,645 | 6,868 | 10,820 | 98 | 327 | 97,600 |
| Camas | — | — | — | — | — | — | 11 | — | — | — | — | 11 |
| Canyon | — | — | — | — | — | — | — | — | — | — | 69 | 69 |
| Caribou | 158 | — | — | 1,825 | — | — | 1,272 | — | — | — | — | 3,255 |
| Cassia | — | — | — | 200 | — | — | 200 | — | — | — | — | 400 |
| Clark | 900 | — | 147 | 9,435 | — | — | 8,350 | — | — | — | — | 18,833 |
| Clearwater | 112,514 | 10,249 | 6,425 | 10,679 | 16,811 | 14,753 | 40,816 | 82,600 | 8,380 | 343 | — | 303,569 |
| Custer | 7 | — | — | 111 | — | — | 353 | — | — | — | — | 471 |
| Elmore | 361 | 100 | 45 | 16 | — | 3,484 | 2,084 | — | — | — | — | 6,090 |
| Franklin | 103 | — | — | 935 | — | — | 1,028 | — | — | — | — | 2,066 |
| Fremont | 750 | — | 34 | 13,731 | — | 46 | 5,179 | — | — | — | — | 19,741 |
| Gem | 485 | 91 | 61 | — | — | 4,679 | 1,561 | — | — | — | — | 6,877 |
| Idaho | 43,474 | 13,568 | 11,824 | 13,334 | 10,981 | 40,307 | 34,397 | 27,103 | 3,724 | — | — | 198,712 |
| Kootenai | 29,834 | 9,627 | 2,714 | 23,512 | 15,085 | 32,158 | 33,013 | 14,674 | 8,297 | 1,126 | 34 | 170,073 |
| Latah | 27,838 | 3,421 | 1,240 | 8,287 | 3,679 | 14,378 | 21,201 | 12,208 | 1,908 | 297 | — | 94,458 |
| Lemhi | 2,807 | 1,418 | 1,785 | 3,681 | 15 | 3,621 | 4,263 | — | 98 | — | — | 17,688 |
| Lewis | 4,948 | 197 | 193 | 3,387 | 1,469 | 5,108 | 4,266 | 803 | 1,378 | — | — | 21,749 |
| Madison | 67 | — | — | 1,115 | — | — | 304 | — | — | — | — | 1,486 |
| Nez Perce | 595 | 193 | 2,421 | 315 | 4,647 | 3,190 | 5,082 | 2,479 | 202 | — | — | 19,124 |
| Power | 51 | — | 21 | 94 | — | — | 870 | — | — | — | — | 1,036 |
| Shoshone | 69,471 | 17,176 | 5,777 | 12,417 | 7,540 | 21,349 | 51,292 | 16,744 | 5,771 | 196 | 23 | 207,756 |
| Teton | 120 | — | 3 | 1,873 | — | — | 576 | — | — | — | — | 2,572 |
| Valley | 10,493 | 1,618 | 3,160 | 2,537 | 315 | 29,303 | 10,870 | 605 | 498 | — | — | 59,399 |
| Washington | 620 | 191 | 150 | 231 | — | 1,710 | 849 | 441 | — | — | — | 4,190 |
| All counties¹ | 442,636 | 109,266 | 58,032 | 173,456 | 90,866 | 344,594 | 429,368 | 204,855 | 59,513 | 2,195 | 1,132 | 1,915,912 |

¹Data may not sum to totals due to rounding or truncating.

Table 13—Cubic volume of timber products harvested in Idaho by county and owner, 1990.

| County | Owner | | | | | | All owners¹ | Percent |
|---------------------------------|-----------------|---------------------------|--------|--------|-----------------|---------------|-------------|---------|
| | National Forest | Bureau of Land Management | State | Tribal | Forest Industry | Other prlvate | | |
| ----- Thousand cubic feet ----- | | | | | | | | |
| Ada | — | — | — | — | — | 59 | 59 | 0.0 |
| Adams | 13,210 | — | 39 | — | 1,365 | 1,034 | 15,647 | 5.0 |
| Bannock | — | — | — | — | — | 866 | 866 | 0.3 |
| Bear Lake | 143 | — | 18 | — | — | — | 161 | 0.1 |
| Benewah | 6,986 | — | 3,218 | 2,082 | 9,572 | 5,911 | 27,769 | 8.9 |
| Bingham | — | — | 256 | — | — | 269 | 525 | 0.2 |
| Blaine | 63 | — | — | — | — | — | 63 | 0.0 |
| Boise | 17,606 | 496 | 1,909 | — | 810 | 1,956 | 22,777 | 7.3 |
| Bonner | 14,511 | 327 | 5,658 | — | 2,782 | 12,717 | 35,996 | 11.6 |
| Bonneville | 1,016 | — | 108 | — | — | 138 | 1,261 | 0.4 |
| Boundary | 7,434 | 49 | 1,925 | — | 1,412 | 4,741 | 15,562 | 5.0 |
| Camas | — | — | 2 | — | — | — | 2 | 0.0 |
| Canyon | — | — | — | — | — | 11 | 11 | 0.0 |
| Caribou | 475 | — | 36 | — | — | — | 511 | 0.2 |
| Cassia | 213 | — | — | — | — | — | 213 | 0.1 |
| Clark | 2,641 | 33 | 141 | — | — | 143 | 2,958 | 1.0 |
| Clearwater | 8,372 | — | 14,143 | 41 | 22,602 | 3,158 | 48,315 | 15.5 |
| Custer | 274 | — | — | — | — | — | 274 | 0.1 |
| Elmore | 941 | — | 13 | — | — | 3 | 957 | 0.3 |
| Franklin | 539 | — | 36 | — | — | — | 574 | 0.2 |
| Fremont | 5,612 | — | 141 | — | — | 75 | 5,829 | 1.9 |
| Gem | 834 | — | 126 | — | — | 121 | 1,080 | 0.3 |
| Idaho | 17,499 | 715 | 1,520 | — | 3,390 | 8,557 | 31,680 | 10.2 |
| Kootenai | 8,435 | — | 3,420 | — | 3,626 | 12,703 | 28,184 | 9.1 |
| Latah | 3,971 | — | 987 | — | 5,048 | 5,401 | 15,408 | 5.0 |
| Lemhi | 2,700 | — | 359 | — | — | 18 | 3,076 | 1.0 |
| Lewis | — | — | 136 | 134 | — | 3,785 | 4,055 | 1.3 |
| Madison | — | — | 162 | — | — | 72 | 233 | 0.1 |
| Nez Perce | — | — | 51 | 1,841 | — | 1,202 | 3,093 | 1.0 |
| Power | — | 71 | — | — | — | 91 | 163 | 0.1 |
| Shoshone | 11,268 | — | 4,404 | — | 13,694 | 3,770 | 33,136 | 10.7 |
| Teton | 350 | — | 64 | — | — | — | 414 | 0.1 |
| Valley | 4,754 | — | 2,066 | — | 1,610 | 992 | 9,421 | 3.0 |
| Washington | 411 | — | 18 | — | 46 | 182 | 658 | 0.2 |
| All counties¹ | 130,259 | 1,692 | 40,954 | 4,098 | 65,956 | 67,974 | 310,933 | 100.0 |
| Percent of total | 41.9 | 0.5 | 13.2 | 1.3 | 21.2 | 21.9 | 100.0 | |

¹Data may not sum to totals due to rounding or truncating.

Table 14—Board-foot (Scribner rule) volume of timber products harvested in Idaho by county and owner, 1990.

| County | Owner | | | | | | All owners ¹ |
|---------------------------|---------------------------------|---------------------------|---------|--------|-----------------|---------------|-------------------------|
| | National Forest | Bureau of Land Management | State | Tribal | Forest industry | Other private | |
| | ----- Thousand board feet ----- | | | | | | |
| Ada | — | — | — | — | — | 330 | 330 |
| Adams | 73,182 | — | 216 | — | 7,608 | 5,763 | 86,769 |
| Bannock | — | — | — | — | — | 4,827 | 4,827 |
| Bear Lake | 800 | — | 100 | — | — | — | 900 |
| Benewah | 38,765 | — | 17,754 | 11,607 | 52,575 | 31,763 | 152,464 |
| Bingham | — | — | 1,427 | — | — | 1,500 | 2,927 |
| Blaine | 354 | — | — | — | — | — | 354 |
| Boise | 98,132 | 2,767 | 10,645 | — | 4,515 | 10,902 | 126,961 |
| Bonner | 78,670 | 1,824 | 31,546 | — | 15,508 | 68,913 | 196,461 |
| Bonneville | 5,664 | — | 600 | — | — | 768 | 7,032 |
| Boundary | 40,382 | 274 | 10,706 | — | 7,873 | 26,432 | 85,667 |
| Camas | — | — | 10 | — | — | — | 10 |
| Canyon | — | — | — | — | — | 60 | 60 |
| Caribou | 2,650 | — | 200 | — | — | — | 2,850 |
| Cassia | 350 | — | — | — | — | — | 350 |
| Clark | 14,721 | 185 | 785 | — | — | 800 | 16,491 |
| Clearwater | 45,117 | — | 78,820 | 231 | 125,414 | 17,447 | 267,029 |
| Custer | 412 | — | — | — | — | — | 412 |
| Elmore | 5,248 | — | 71 | — | — | 14 | 5,333 |
| Franklin | 1,609 | — | 200 | — | — | — | 1,809 |
| Fremont | 16,081 | — | 785 | — | — | 420 | 17,286 |
| Gem | 4,650 | — | 700 | — | — | 672 | 6,022 |
| Idaho | 95,408 | 3,985 | 8,397 | — | 18,899 | 47,615 | 174,304 |
| Kootenai | 46,928 | — | 19,039 | — | 19,642 | 66,034 | 151,643 |
| Latah | 21,895 | — | 5,338 | — | 26,569 | 30,009 | 83,811 |
| Lemhi | 13,389 | — | 2,000 | — | — | 100 | 15,489 |
| Lewis | — | — | 726 | 748 | — | 18,790 | 20,264 |
| Madison | — | — | 901 | — | — | 400 | 1,301 |
| Nez Perce | — | — | 256 | 9,928 | — | 6,615 | 16,799 |
| Power | — | 398 | — | — | — | 509 | 907 |
| Shoshone | 61,434 | — | 24,255 | — | 76,342 | 20,860 | 182,891 |
| Teton | 1,953 | — | 299 | — | — | — | 2,252 |
| Valley | 26,163 | — | 11,520 | — | 8,974 | 5,530 | 52,187 |
| Washington | 2,292 | — | 101 | — | 259 | 1,017 | 3,669 |
| All counties ¹ | 696,249 | 9,433 | 227,397 | 22,514 | 364,178 | 368,090 | 1,687,861 |

¹Data may not sum to totals due to rounding or truncating.

Table 15—Board-foot (International 1/4-inch rule) volume of timber products harvested in Idaho by county and owner, 1990.

| County | Owner | | | | | | All owners¹ |
|---------------|---------------------------------|---------------------------|---------|--------|-----------------|---------------|-------------|
| | National Forest | Bureau of Land Management | State | Tribal | Forest industry | Other private | |
| | ----- Thousand board feet ----- | | | | | | |
| Ada | — | — | — | — | — | 377 | 377 |
| Adams | 83,292 | — | 247 | — | 8,688 | 6,581 | 98,808 |
| Bannock | — | — | — | — | — | 5,512 | 5,512 |
| Bear Lake | 914 | — | 114 | — | — | — | 1,028 |
| Benewah | 44,167 | — | 20,168 | 13,255 | 59,567 | 35,562 | 172,719 |
| Bingham | — | — | 1,630 | — | — | 1,713 | 3,343 |
| Blaine | 404 | — | — | — | — | — | 404 |
| Boise | 112,067 | 3,160 | 12,157 | — | 5,156 | 12,450 | 144,989 |
| Bonner | 89,841 | 2,083 | 36,026 | — | 17,710 | 77,818 | 223,478 |
| Bonneville | 6,468 | — | 685 | — | — | 877 | 8,031 |
| Boundary | 45,884 | 313 | 12,226 | — | 8,991 | 30,185 | 97,600 |
| Camas | — | — | 11 | — | — | — | 11 |
| Canyon | — | — | — | — | — | 69 | 69 |
| Caribou | 3,026 | — | 228 | — | — | — | 3,255 |
| Cassia | 400 | — | — | — | — | — | 400 |
| Clark | 16,811 | 211 | 896 | — | — | 914 | 18,833 |
| Clearwater | 50,601 | — | 90,000 | 264 | 142,875 | 19,828 | 303,569 |
| Custer | 471 | — | — | — | — | — | 471 |
| Elmore | 5,993 | — | 81 | — | — | 16 | 6,090 |
| Franklin | 1,837 | — | 228 | — | — | — | 2,066 |
| Fremont | 18,365 | — | 896 | — | — | 480 | 19,741 |
| Gem | 5,310 | — | 799 | — | — | 767 | 6,877 |
| Idaho | 108,715 | 4,551 | 9,541 | — | 21,583 | 54,323 | 198,712 |
| Kootenai | 53,531 | — | 21,730 | — | 22,090 | 72,721 | 170,073 |
| Latah | 24,857 | — | 5,996 | — | 29,402 | 34,202 | 94,458 |
| Lemhi | 15,290 | — | 2,284 | — | — | 114 | 17,688 |
| Lewis | — | — | 810 | 854 | — | 20,085 | 21,749 |
| Madison | — | — | 1,029 | — | — | 457 | 1,486 |
| Nez Perce | — | — | 280 | 11,338 | — | 7,506 | 19,124 |
| Power | — | 455 | — | — | — | 581 | 1,036 |
| Shoshone | 69,328 | — | 27,520 | — | 87,183 | 23,726 | 207,756 |
| Teton | 2,230 | — | 341 | — | — | — | 2,572 |
| Valley | 29,680 | — | 13,156 | — | 10,248 | 6,315 | 59,399 |
| Washington | 2,617 | — | 115 | — | 296 | 1,161 | 4,190 |
| All counties¹ | 792,101 | 10,772 | 259,197 | 25,711 | 413,789 | 414,341 | 1,915,912 |

¹Data may not sum to totals due to rounding or truncating.

Table 16—Cubic volume of timber products harvested in Idaho by species and owner, 1990.

| Species | Owner | | | | | | | Percent |
|--------------------------|----------------------------|---------------------------|--------|------------------|-----------------|---------------|-------------------------|---------|
| | National Forest | Bureau of Land Management | State | Tribal | Forest industry | Other private | All owners ¹ | |
| | <i>Thousand cubic feet</i> | | | | | | | |
| True fir | 24,542 | 197 | 11,119 | 686 | 21,071 | 12,740 | 70,355 | 22.6 |
| Western larch | 7,124 | 108 | 2,525 | 196 | 3,534 | 3,723 | 17,210 | 5.5 |
| Engelmann spruce | 4,110 | 149 | 1,015 | 306 | 1,843 | 1,736 | 9,159 | 2.9 |
| Lodgepole pine | 16,481 | 202 | 2,941 | 280 | 5,158 | 8,981 | 34,043 | 10.9 |
| Western white pine | 4,560 | 83 | 2,197 | 583 | 3,611 | 3,701 | 14,735 | 4.7 |
| Ponderosa pine | 29,710 | 399 | 5,189 | 495 | 7,193 | 11,710 | 54,695 | 17.6 |
| Douglas-fir | 30,856 | 460 | 8,361 | 1,003 | 11,094 | 16,079 | 67,853 | 21.8 |
| Western redcedar | 9,243 | 9 | 6,413 | 505 | 10,358 | 5,762 | 32,289 | 10.4 |
| Western hemlock | 3,427 | 85 | 1,163 | 43 | 1,996 | 3,212 | 9,926 | 3.2 |
| Cottonwood | 110 | — | — | — | 99 | 280 | 489 | 0.2 |
| Unknown | 95 | — | 32 | (²) | — | 50 | 178 | 0.1 |
| All species ¹ | 130,259 | 1,692 | 40,954 | 4,098 | 65,956 | 67,974 | 310,933 | 100.0 |
| Percent of total | 41.9 | 0.5 | 13.2 | 1.3 | 21.2 | 21.9 | 100.0 | |

¹Data may not sum to totals due to rounding or truncating.²Less than 500 cubic feet.**Table 17**—Board-foot (Scribner rule) volume of timber products harvested in Idaho by species and owner, 1990.

| Species | Owner | | | | | | |
|--------------------------|----------------------------|---------------------------|---------|--------|-----------------|---------------|-------------------------|
| | National Forest | Bureau of Land Management | State | Tribal | Forest industry | Other private | All owners ¹ |
| | <i>Thousand board feet</i> | | | | | | |
| True fir | 135,754 | 1,099 | 61,801 | 3,824 | 117,045 | 69,664 | 389,187 |
| Western larch | 39,579 | 604 | 14,054 | 1,094 | 19,701 | 20,726 | 95,758 |
| Engelmann spruce | 22,806 | 831 | 5,638 | 1,706 | 10,272 | 9,648 | 50,901 |
| Lodgepole pine | 66,415 | 1,127 | 16,122 | 1,225 | 26,989 | 44,454 | 156,332 |
| Western white pine | 24,245 | 465 | 12,191 | 3,252 | 19,881 | 20,036 | 80,070 |
| Ponderosa pine | 164,993 | 2,222 | 28,824 | 2,760 | 39,764 | 64,272 | 302,835 |
| Douglas-fir | 171,408 | 2,562 | 46,483 | 5,594 | 61,674 | 89,039 | 376,760 |
| Western redcedar | 51,500 | 49 | 35,723 | 2,816 | 57,644 | 31,866 | 179,598 |
| Western hemlock | 18,528 | 474 | 6,382 | 242 | 10,764 | 16,844 | 53,234 |
| Cottonwood | 490 | — | — | — | 444 | 1,261 | 2,195 |
| Unknown | 531 | — | 179 | 1 | — | 280 | 991 |
| All species ¹ | 696,249 | 9,433 | 227,397 | 22,514 | 364,178 | 368,090 | 1,687,861 |

¹Data may not sum to totals due to rounding or truncating.

Table 18—Board-foot (International 1/4-inch rule) volume of timber products harvested in Idaho by species and owner, 1990.

| Species | Owner | | | | | | All owners ¹ |
|--------------------------|----------------------------|---------------------------|---------|--------|-----------------|---------------|-------------------------|
| | National Forest | Bureau of Land Management | State | Tribal | Forest industry | Other private | |
| | <i>Thousand board feet</i> | | | | | | |
| True fir | 154,388 | 1,255 | 70,462 | 4,367 | 133,413 | 78,751 | 442,636 |
| Western larch | 45,139 | 690 | 16,040 | 1,249 | 22,499 | 23,649 | 109,266 |
| Engelmann spruce | 25,977 | 949 | 6,429 | 1,948 | 11,731 | 10,998 | 58,032 |
| Lodgepole pine | 74,819 | 1,287 | 18,305 | 1,399 | 29,770 | 47,877 | 173,456 |
| Western white pine | 27,653 | 531 | 13,887 | 3,714 | 22,557 | 22,524 | 90,866 |
| Ponderosa pine | 188,042 | 2,538 | 32,854 | 3,152 | 45,211 | 72,798 | 344,594 |
| Douglas-fir | 195,385 | 2,926 | 53,011 | 6,388 | 70,327 | 101,331 | 429,368 |
| Western redcedar | 58,798 | 56 | 40,781 | 3,216 | 65,766 | 36,238 | 204,855 |
| Western hemlock | 20,805 | 541 | 7,225 | 276 | 12,072 | 18,594 | 59,513 |
| Cottonwood | 490 | — | — | — | 444 | 1,261 | 2,195 |
| Unknown | 606 | — | 204 | 1 | — | 320 | 1,132 |
| All species ¹ | 792,101 | 10,772 | 259,197 | 25,711 | 413,789 | 414,341 | 1,915,912 |

¹Data may not sum to totals due to rounding or truncating.

Table 19—Estimated volume, in bone dry units, of used and unused residue from mills in Idaho, 1990 (Keegan and others 1992).

| Residue | Product | | | Total used | Unused | Total produced |
|---------------------|--|------------|-------|------------|--------|----------------|
| | Pulp and boards | Plant fuel | Other | | | |
| | ----- <i>Thousand bone dry units</i> ----- | | | | | |
| Bark | — | 340 | 51 | 392 | 23 | 415 |
| Coarse ¹ | 988 | — | 13 | 1,001 | 5 | 1,006 |
| Fines ² | 396 | 255 | 24 | 675 | 22 | 697 |
| Total | 1,383 | 595 | 88 | 2,067 | 50 | 2,117 |

¹Material suitable for chipping, such as slabs, edgings, and trim.

²Sawdust and planer shavings.

Table 20—Estimated volume, in thousand cubic feet¹, of used and unused residue from mills in Idaho, 1990.

| Residue | Product | | | Total used | Unused | Total produced |
|---------------------|--|---------------|-------|---------------|--------|-------------------|
| | Pulp and boards | Plant fuel | Other | | | |
| | ----- <i>Thousand cubic feet</i> ----- | | | | | |
| Bark | — | 32,647 | 4,942 | 37,589 | 2,206 | 39,794 |
| Coarse ² | 94,821 | — | 1,228 | 96,049 | 520 | 96,569 |
| Fines ³ | 37,986 | 24,487 | 2,323 | 64,795 | 2,084 | 66,879 |
| Total | 132,806 | 57,134 | 8,493 | 198,433 | 4,809 | 203,242 |

¹Residue data were reported in bone dry units (Keegan and others 1992). A BDU/cubic feet conversion factor was unavailable; however, Cunit conversions were available for both pounds and cubic feet. BDU's were converted to cubic feet as follows:

1 bone dry unit = 2,400 pounds (ovendry weight)

1 Cunit = 2,500 pounds (ovendry weight) = 100 cubic feet

Therefore

1 bone dry unit = $\frac{2,400}{2,500} \times 100 = 96$ cubic feet

²Material suitable for chipping, such as slabs, edgings, and trim.

³Sawdust and planer shavings.

Table 21—Cubic volume of timber products¹ harvested in Idaho by size² of mill, plant, or yard receiving products, 1990.

| Mill capacity | Production |
|--|---------------------------|
| <i>Million board feet, Scribner rule</i> | <i>Million cubic feet</i> |
| More than 50 | 110.9 |
| More than 25 to 50 | 143.0 |
| More than 10 to 25 | 23.3 |
| More than 1 to 10 | 11.7 |
| 1 or less | 2.9 |
| Total | 291.8 |

¹Products include sawlogs, veneer logs, utility poles, house logs, and fiberwood. Does not include pulp, posts and small poles, and cedar products.

²Size classes are based on the annual capacity to process logs.

Table 22—Timber production and timber removals by source of material and product, Idaho, 1990.

| Products and additional removals | Product volume ¹ | | | Noninventory product volume ² | Growing-stock removals ³ |
|----------------------------------|---|-----------------|--------------------|--|---------------------------------------|
| | Total | From live trees | From salvable dead | | |
| | ----- Thousand cubic feet ----- | | | | |
| Sawlogs ⁴ | 251,095 | 232,584 | 18,511 | 2,093 | 230,491 |
| Veneer logs ⁴ | 30,107 | 24,763 | 5,344 | 223 | 24,544 |
| Pulp and fiberwood ⁵ | 18,185 | 17,125 | 1,060 | 154 | 16,971 |
| Posts and poles ⁶ | 4,677 | 3,834 | 843 | 34 | 3,800 |
| Utility poles ⁷ | 815 | 809 | 6 | 7 | 802 |
| House logs ⁴ | 1,676 | 711 | 965 | 6 | 705 |
| Cedar products ⁴ | 4,377 | 3,008 | 1,369 | 27 | 2,981 |
| Total | 310,933 | 282,834 | 28,099 | 2,544 | 280,290 |
| Logging residue ⁸ | — | — | — | — | 27,150 |
| Total | 310,933 | 282,834 | 28,099 | 2,544 | 307,440 |
| | | | | | Sawtimber removals⁹ |
| | ----- Thousand board feet (Scribner rule) ----- | | | | |
| Sawlogs ⁴ | 1,399,856 | 1,296,657 | 103,199 | 35,010 | 1,261,647 |
| Veneer logs ⁴ | 161,849 | 138,053 | 29,796 | 3,727 | 134,326 |
| Pulp and fiberwood ⁵ | 81,865 | 77,142 | 4,723 | 2,083 | 75,059 |
| Posts and poles ⁶ | — | — | — | — | — |
| Utility poles ⁷ | 4,543 | 4,508 | 35 | 122 | 4,386 |
| House logs ⁴ | 9,346 | 3,965 | 5,381 | 107 | 3,858 |
| Cedar products ⁴ | 24,402 | 16,768 | 7,634 | 453 | 16,315 |
| Total | 1,687,861 | 1,537,093 | 150,768 | 41,502 | 1,495,591 |
| Logging residue ⁸ | — | — | — | — | 81,617 |
| Total | 1,687,861 | 1,537,093 | 150,768 | 41,502 | 1,577,208 |
| | ----- Thousand board feet (International 1/4-inch rule) ----- | | | | |
| Sawlogs ⁴ | 1,598,635 | 1,480,782 | 117,853 | 41,462 | 1,439,320 |
| Veneer logs ⁴ | 191,683 | 157,656 | 34,027 | 4,414 | 153,242 |
| Pulp and fiberwood ⁵ | 81,865 | 77,142 | 4,723 | 2,160 | 74,982 |
| Posts and poles ⁶ | — | — | — | — | — |
| Utility poles ⁷ | 5,188 | 5,148 | 40 | 144 | 5,004 |
| House logs ⁴ | 10,673 | 4,528 | 6,145 | 127 | 4,401 |
| Cedar products ⁴ | 47,016 | 19,149 | 27,867 | 536 | 18,613 |
| Total | 1,935,060 | 1,744,405 | 190,655 | 48,843 | 1,695,562 |
| Logging residue ⁸ | — | — | — | — | 92,797 |
| Total | 1,935,060 | 1,744,405 | 190,655 | 48,843 | 1,788,359 |

¹Sawlogs, veneer logs, pulp and fiberwood, post and poles, utility poles, house logs, and cedar products volumes (from mill canvass).

²Noninventory product volume (see Terminology for definition).

³Growing-stock and sawtimber removals (see Terminology for definition).

⁴Volumes reported in thousand board feet (Scribner rule). Cubic-/board-foot conversions are from logging utilization study (McLain, in preparation).

⁵Conversion factors derived from data supplied by the forest products industry to the Bureau of Business and Economic Research, University of Montana. Round pulpwood and fiberwood were reported in mixed units. These units were converted to cords. Cords were converted to thousand board feet (Scribner rule and International 1/4-inch rule) using 3 cords/thousand board feet. Board feet were converted to cubic feet at the rate of 4.5 board feet/cubic foot.

⁶Posts and small poles were reported in number of pieces and their respective dimensions. The cubic volume was calculated using the dimension information, then average cubic volume/piece was calculated. Posts and small poles with small-end diameters less than 6 inches have 0 board feet.

⁷Utility poles were reported in thousand board feet (Scribner rule) and number of pieces. The conversions from thousand board feet (Scribner rule) to thousand board feet (International 1/4-inch rule) and thousand cubic feet are from the logging utilization study (McLain, in preparation).

⁸Logging residue is the unused portions within the merchantable sections of growing-stock trees cut or killed during logging.

⁹Sawtimber removals (see Terminology for definition).

Table 23—Conversion factors used in preparing volume statistics for this report.

| Product | Cords | Piece | Cubic feet | Board feet | |
|---|-------|-------|---------------|------------------|--------------------------------|
| | | | | Scribner rule | International 1/4-inch rule |
| Sawlogs and other roundwood ¹ | — | — | 1.000 | 5.575 | 6.366 |
| Sawlogs and other roundwood ¹ | — | — | — | 1.000 | 1.142 |
| Pulpwood and fiberwood ² | 1 | — | 74.000 | 333.333 | 333.333 |
| Pulpwood and fiberwood ² | — | — | 1.000 | 4.500 | 4.500 |
| Utility poles ³ | — | 1 | 20.628 | 115.000 | 131.318 |
| Posts and small poles ⁴ | — | 1 | 1.200 | — | — |

Mill Residues

Mill residue reported in Bone Dry Units (BDU's) and converted to cubic feet as follows:

1 bone dry unit = 2,400 pounds (oven dry weight)

1 Cunit = 2,500 pounds (oven dry weight) = 100 cubic feet

1 bone dry unit = $\frac{2,400}{2,500} \times 100 = 96$ cubic feet

¹Other roundwood comprises veneer logs, house logs, and cedar products. The conversion factors for sawlogs and other roundwood were derived from logging utilization data collected on active logging operations in Idaho in 1989.

²Conversion factors derived from data supplied by the forest products industry to the Bureau of Business and Economic Research, University of Montana. Round pulpwood and fiberwood was reported in mixed units. These units were converted to cords. Cords were converted to thousand board feet (Scribner rule and International 1/4-inch rule) using 3 cords/thousand board feet. Board feet were converted to cubic feet at the rate of 4.5 board feet/cubic foot.

³Utility poles were reported in thousand board feet (Scribner rule) and number of pieces, which provided the means for computing the average number of board feet/piece. The conversions from thousand board feet (Scribner rule) to cubic volume and thousand board feet (International 1/4-inch rule) used the same factors as were used for sawlogs and other roundwood.

⁴Posts and small poles were reported in number of pieces and their respective dimensions. The cubic volume was calculated using the dimension information, then average cubic volume/piece was calculated. Posts and poles with small-end diameters less than 6 inches have 0 board feet.



McLain, William H.; Keegan, Charles E., III; Wichman, Daniel P. 1996. Idaho's timber production and mill residue, 1990. Resour. Bull. INT-RB-85. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Research Station. 20 p.

Reports 1990 timber production estimates for Idaho by county, species, owner, and product. Also reports estimates of mill residue by use. Data obtained by canvassing primary wood processors in Idaho and out-of-State mills receiving logs harvested in Idaho.

Keywords: timber products output, sawlog production, industrial roundwood, primary wood products, timber harvest, growing-stock removals

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